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NOTICE OF ALLOWANCE AND FEE(S) DUE

45209

7590

11/12/2008

EXAMINER

WANG, RONGFA PHILIP

ART UNIT PAPER NUMBER

INTEL/BSTZ BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040

2191 DATE MAILED: 11/12/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815.397	03/31/2004	Ali-Reza Adl-Tabatabai	42P18152	7577

TITLE OF INVENTION: PROGRAM OBJECT READ BARRIER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/12/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence including ed below or directed oth tions.	ng the Patent, advance on herwise in Block 1, by (rders and notification of a a) specifying a new corre					
CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bl	lock 1 for any change of address)	Fee pap	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus have its own certificate of mailing or transmission.				
45209	7590 11/12			· ·	Mailing or Transm	ission		
INTEL/BSTZ BLAKELY SOI 1279 OAKMEA	KOLOFF TAYLOR AD PARKWAY	& ZAFMAN LLP	I he Stat add tran	I hereby certify that this Fee(s) Transmittal is being deposited with States Postal Service with sufficient postage for first class mail in a addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO (571) 273-2885, on the date indicated bel				
	CA 94085-4040					•	(Depositor's name)	
							(Signature)	
							(Date)	
APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.		CONFIRMATION NO.	
10/815,397	03/31/2004	•	Ali-Reza Adl-Tabatabai		421	P18152	7577	
TITLE OF INVENTION	J: PROGRAM OBJECT	READ BARRIER						
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE TO	OTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1510	\$300	\$0		\$1810	02/12/2009	
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
WANG, RON	NGFA PHILIP	2191	717-104000					
"Fee Address" ind PTO/SB/47; Rev 03- Number is required.	oondence address (or Cha B/122) attached. lication (or "Fee Address 02 or more recent) attach	(1) the names of up to or agents OR, alternatic (2) the name of a single registered attorney or 2 registered patent attorney or the control of the control o	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	data will appear on the p T a substitute for filing an (B) RESIDENCE: (CIT)	atent. If an assigr assignment. And STATE OR C	COUNTRY)		_	
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	Individual 🖵 C	orporation or	r other private grou	p entity Government	
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Plea	ase first reapply a	ny previousl	ly paid issue fee sl	iown above)	
☐ Issue Fee ☐ Publication Fee (1)	No small entity discount p	permitted)	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.					
	# of Copies	The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
5. Change in Entity Sta	,	,	_					
NOTE: The Issue Fee an	ns SMALL ENTITY state and Publication Fee (if rec	uired) will not be accepte	b. Applicant is no loned from anyone other than t					
interest as shown by the	records of the United Sta	ites Patent and Trademark	COffice.				——————————————————————————————————————	
Authorized Signature				Date				
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This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	itiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	CFR 1.311. The information of U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or a 1.14. This collection is esty depending upon the individe Chief Information Office COMPLETED FORMS TO	retain a benefit by timated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRES:	the public when the public when the comments on Trademark (S. SEND TO	hich is to file (and lomplete, including the amount of tim Office, U.S. Deparor Commissioner for	by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O. or Patents, P.O. Box 1450,	

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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INTEL/BSTZ			WANG, RON	GFA PHILIP	
BLAKELY SOK		ART UNIT	PAPER NUMBER		
1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040			2191 DATE MAILED: 11/12/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 950 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 950 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/815,397	ADL-TABATABAI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	 PHILIP WANG	2191	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to RCE with new IDS file 2. The allowed claim(s) is/are 1,3-5,7-11,13-18,20-22 and 24-	(OR REMAINS) CLOSED in the or other appropriate communic IGHTS. This application is substand MPEP 1308.	is application. If not included cation will be mailed in due course.	
<u> </u>		_	
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	been received. been received in Application I	No	n the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application. itted. Note the attached EXAM	INER'S AMENDMENT or NOTICE	
INFORMAL PATENT APPLICATION (PTO-152) which give	, , <u>-</u>	eclaration is deficient.	
5. CORRECTED DRAWINGS (as "replacement sheets") mus			
(a) ☐ including changes required by the Notice of Draftspers		PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date		the Office entire of	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1)			
each sheet. Replacement sheet(s) should be labeled as such in t			1
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 10/20/2008 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sum Paper No./Ma 7. ☐ Examiner's An 8. ☑ Examiner's Sta	il Date	
	9.		

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DETAILED ACTION

1. This office action is in response to RCE with new IDS filed on 10/20/2008

2. Claims 1, 3-5, 7-11, 13-18, 20-22, and 24-28 are allowed.

3. The following is an examiner's statement of reasons for allowance:

The newly submitted IDS have been considered. The cited prior art taken alone or in combination fail to teach the limitation "performing a combined check for a null reference and for a read barrier for the program object, the combined check including performing a speculative load in response to the read request and performing a speculation check for the speculative load; and if the speculative load is unsuccessful, performing a recovery operation including: determining if a read barrier is needed, wherein determining if the read barrier is needed includes determining whether a least significant bit of an address of the program object is set, and if a read barrier is needed, performing a read barrier process.

" as recited in independent claims.

The closest cited prior arts, "Method and apparatus for optimizing away a null-check" (US 20050149588 A1) by Bacon et al. teaches a method of combining a null-check required for an application with null check required by its read barrier. Both Bacon and the instant application discloses steps of improving efficiency related to accessing a read barrier. However, what is being combined in instant application is a null check of an application and a check of if a read barrier needed. Because of the difference in what is being combined, the steps of performing the combinations are different in instant application and Bacon.

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Art Unit: 2191

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip Wang whose telephone number is 571-272-5934. The examiner can normally be reached on Mon - Fri 8 - 44:00PM. Any inquiry of general nature or relating to the status of this application should be directed to the TC2100 Group receptionist: 571-272-2100.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached on 571-272-3708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Wei Y Zhen/

Supervisory Patent Examiner, Art Unit 2191